

9 AUG 1962

1. The operational requirement for en route graphic navigation aids in the OXCART vehicle was thoroughly discussed and developed during a meeting 8 August 1962 at Project Headquarters. The purpose of this paper is to summarize the results of the committee investigations and to formalize the operational requirement.

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a. Cockpit graphics must be supplied that will allow the planned route to be flown accurately.

b. Additional coverage must be supplied that will allow navigation to a suitable alternate landing if necessary.

c. Destruction capability must be inherent in any device considered to display the graphics.

d. Inflight notations should be made without using pencil and paper.

4. The following recommended solutions are based in part on the fact that operational readiness training is programmed to begin during December 1962 and that product developing and testing must be completed at that time. Additionally, it has been established that sufficient aeronautical charts exist and no new graphics will be required from ACIC. Three scales should be flight tested for suitability:

- 1:5,000,000 - GNC (En route navigation)
- 1:3,000,000 - JNC (Photo line flying)
- 1:200,000 - Target Chart (INS fix point)

a. The first available device should be the "knee map panel", similar to the present IDEALIST approach. However, the paper stock should be of water soluble paper (Attachment #1) and the entire set of seven or eight panels should be stored in a container designed for rapid destruction of its contents (Attachment #2). Training can commence with presently available charts and "special paper" charts can be produced as soon as possible. IDEALIST requirements should be considered as well.

b. The "knee map panel" must be considered an interim fix because of the inconvenience involved in its use. The ultimate device recommended is through the use of the present viewfinder. It is strongly urged that action be initiated to develop a device to allow 35mm film strip pictures to be displayed on the viewfinder. Both Baird and Lockheed representatives feel this is feasible and obtainable in the near future (Attachment #3).

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c. A miniature tape recorder is recommended as the method to free the pilot from note taking inflight. This approach is endorsed by ACIC and agreed to by the committee as a whole (Attachment #4).

5. Your concurrence is requested to allow the Development Division to initiate actions necessary for the development, procurement, and testing of the devices outlined above.

SIGNED

[Redacted Signature]

LT. Colonel USAF
Chief, Operations Division, OSA

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CONCUR:

[Redacted Signature]

JAMES A. CUNNINGHAM, JR.
Acting Assistant Director
(Special Activities)

Attachments - 4

- #1 - Knee Pad Panel
- #2 - Destruct Can
- #3 - 35mm Projection in Viewfinder
- #4 - Inflight Tape Recorder

cc: OSA/SEC
OSA/DD
OSA/MD
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OSA/OD/OXC [Redacted] (9 Aug 62)

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